

## ANTI-GRAVITY MOUNT WITH AIR AND MAGNETS

### ABSTRACT OF THE DISCLOSURE

5 An apparatus for providing support between a first structure and a second structure is described. The apparatus includes a supporting member, and first and second sections. The supporting member is mounted to the first structure and second structure, and has positive stiffness with respect to a lateral direction. The first section has at least one magnetic member, and is coupled to the first structure. The second section has at least one magnetic member, and is coupled to the second structure. The first and second sections present negative stiffness caused by magnetic attractive force at a neutral position, thereby canceling at least a part of the positive stiffness of the supporting member.

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